

CLAIMS

1. A cigarette having a tobacco rod and a wrapper for said tobacco rod, said wrapper comprising porous particulate cerium oxide.
2. A cigarette of claim 1, wherein said cerium oxide has an average particle size of less than about 30 μm .
3. A cigarette of claim 2, wherein said cerium oxide has a high surface area in excess of about 20 m^2/g and an average particle size greater than about 1 μm .
4. A cigarette of claim 1, wherein said cerium oxide is admixed with a zeolite.
5. A cigarette of claim 4, wherein said cerium oxide is provided as a layer adjacent to a layer of zeolite.
6. A cigarette of claim 1, wherein said wrapper further comprises at least one of a metal and metal oxide oxidation catalyst, said metal and/or metal oxide oxidation catalyst being selected from the group consisting of precious metals, transition metal oxides, rare earth metal oxides, metals from groups IIA and IVA and mixtures thereof.
7. A cigarette of claim 6 wherein said selected metal or metal oxide oxidation catalyst is selected from the group consisting of platinum, palladium, copper oxide, iron oxide, magnesium oxide, silver oxide, titanium oxide, zirconium oxide and mixtures thereof.

8. A cigarette of claim 7 wherein said transition metal oxide is iron oxide.
9. A cigarette of claim 1 wherein said cerium oxide is incorporated within said wrapper at a loading rate of about 2.5 g/m² to about 125 g/m².
10. A cigarette of claim 6, wherein said mixture of metal oxides comprises porous particulate cerium oxide/ zirconium oxide.
11. A cigarette of claim 10, wherein said mixture of metal oxides comprises porous particulate cerium oxide/ zirconium oxide and palladium
12. A cigarette comprising a tobacco rod and a cigarette paper for said tobacco rod, said paper comprising, in combination, a rare earth metal oxide and an essentially non-combustible finely divided porous particulate adjunct for said rare earth metal oxide.
13. A cigarette of claim 12, wherein said rare earth metal oxide is cerium and said adjunct is zeolite.
14. A cigarette of claim 13, wherein said cerium oxide is fixed to the surface of said zeolite.
15. A cigarette of claim 12, wherein said rare earth metal oxide is cerium oxide and said adjunct is zirconium oxide.
16. A cigarette of claim 15, wherein said cerium oxide and zirconium oxide form a mixed metal oxide.

17. The cigarette of claim 15, wherein the paper further comprises at least one metal and metal oxide oxidation catalyst, said metal and/or metal oxide oxidation catalyst being selected from the group consisting of precious metals, transition metal oxides, rare earth metal oxides, metals from groups IIA and IVA and mixtures thereof.

18. A cigarette of claim 17 wherein said selected metal or metal oxide oxidation catalyst is selected from the group consisting of platinum, palladium, copper oxide, iron oxide, magnesium oxide, silver oxide, titanium oxide, zirconium oxide and mixtures thereof.

19. A cigarette of claim 17 wherein said transition metal oxide is iron oxide.

20. A low sidestream smoke cigarette comprising a conventional tobacco rod, and a combustible treatment paper having a sidestream smoke treatment composition, said treatment composition comprising, in combination, a rare earth metal oxide and an essentially non-combustible finely divided porous particulate adjunct for said rare earth metal oxide.

21. A cigarette of claim 20, wherein said treatment composition comprises, in combination, a mixture of said rare earth metal oxide and a transition metal oxide and an essentially non-combustible finely divided porous particulate adjunct for said mixture.

22. A cigarette of claim 21, wherein said rare earth metal oxide is cerium oxide, said transition metal oxide is zirconium oxide and the porous particulate adjunct is zeolite.

23. A cigarette of claim 22, wherein said cerium oxide and zirconium oxide is a mixed metal oxide used in admixture with the zeolite.

24. A furnish composition for use in making a cigarette paper, said furnish composition comprising in combination, an oxygen storage and donor metal oxide oxidation catalyst and an essentially non-combustible finely divided porous particulate adjunct.

25. A furnish composition of claim 24, wherein said catalyst and said adjunct have an average particle size less than about 30 μ m.

26. A furnish composition of claim 25, wherein said adjunct is selected from the group consisting of clays, essentially non-combustible milled fibres, monolithic mineral based materials, essentially non-combustible activated carbon, zeolites and mixtures thereof, and said catalyst is selected from the group consisting of transition metal oxides, rare earth metal oxides and mixtures thereof.

27. A furnish composition of claim 26, wherein said non-combustible milled fibres are selected from the group consisting of zirconium fibres, zirconium/cerium fibres, ceramic fibres, carbon fibres and mixtures thereof.

28. A furnish composition of claim 26, wherein said transition metal oxides are selected from the group consisting of oxides of group IVB, VB, VIB, VIIB, VIII, IB metals and mixtures thereof, and said rare earth

metal oxides are selected from the group consisting of oxides of scandium, yttrium, lanthanum, lanthanide metals and mixtures thereof.

29. A furnish composition of claim 28, wherein said catalyst is cerium oxide and said adjunct is a zeolite.

30. A furnish composition of claim 24 further comprising a processing aid selected from the group consisting of zirconium fibres and zirconium/cerium fibres.

31. A slurry composition for application to cigarette paper for reducing sidestream smoke emitted from a burning cigarette, said slurry composition comprising in combination an oxygen storage and donor metal oxide oxidation catalyst and an essentially non-combustible finely divided porous particulate adjunct.

32. A slurry composition of claim 31, wherein said catalyst and said adjunct have an average particle size less than about 30 μ m.

33. A slurry composition of claim 32, wherein said adjunct is selected from the group consisting of clays, essentially non-combustible milled fibres, monolithic mineral based materials, essentially non-combustible activated carbon, zeolites and mixtures thereof, and said catalyst is selected from the group consisting of transition metal oxides, rare earth metal oxides and mixtures thereof.

34. A slurry composition of claim 33, wherein said non-combustible milled fibres are selected from the group consisting of zirconium fibres,

zirconium/cerium fibres, ceramic fibres, carbon fibres and mixtures thereof.

35. A slurry composition of claim 33, wherein said transition metal oxides are selected from the group consisting of oxides of group IVB, VB, VIB, VIIB, VIII, IB metals and mixtures thereof, and said rare earth metal oxides are selected from the group consisting of oxides of scandium, yttrium, lanthanum, lanthanide metals and mixtures thereof.

36. A slurry composition of claim 35, wherein said catalyst is cerium oxide and said adjunct is a zeolite.

37. A slurry composition of claim 35, wherein said slurry composition is incorporated with said paper from about 10% to about 500% by weight.

38. A slurry composition of claim 31 further comprising a processing aid selected from the group consisting of zirconium fibres and zirconium/cerium fibres.